

Call for Papers

IEEE GLOBECOM 2012 - Wireless Networking Symposium

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Scope of the Symposium

Wireless networks are expected to encompass heterogeneous access technologies and the Internet backbone for providing services to both mobile and stationary users. It poses significant technical challenges to enable broadband wireless access with seamless and ubiquitous coverage and Quality-of-Service (QoS) provisioning. The objective of this symposium is to serve as an international forum for experts from academia, industry, and government to exchange ideas and results on research and developments, as well as to promote and accelerate standardization, applications, and services of current and future wireless networks. Prospective authors are invited to submit original contributions on all aspects of wireless networks, applications, and services, including, but not limited to the following topics of interest. Please note that this Symposium covers higher layers of the network protocol stack, although papers on cross-layer design/optimization are welcome. Therefore, papers solely related to radio communications and the physical layer should be submitted to other relevant symposia of IEEE GLOBECOM 2012.

List of Topics

- Cellular systems, 2G/2.5G/3G/4G and beyond
- WiMAX, LTE, WMAN, and other emerging broadband wireless networks
- Networking issues in WLAN, WPAN, and other home/personal networking technologies
- Body-based wireless networks
- Pervasive and wearable computing
- Wireless networks for underwater and UAVs communications
- Delay tolerant wireless networks
- Wireless mesh networks

- Vehicular wireless networks
- Smart grid networks
- Cloud computing and data center networking
- Wireless Internet and mobile IP
- Inter-networking and integration of wireless heterogeneous and multi-tier networks
- Multimode wireless networks
- Reconfigurable wireless networks
- Novel architectural design and operation models
- Service-centric and overlay networks
- Peer-to-peer wireless networks
- Self-organizing network
- Wireless multimedia networks
- Location- and context-aware services
- End-to-end protocol, flow and congestion control
- Routing and multicasting protocols
- Resource management and admission control
- Mobility, handoff, and location management
- Power management and control
- Energy conservation techniques
- User cooperation and incentive schemes
- Cross-layer design and optimization
- Performance analysis and QoS provisioning
- Network planning, capacity analysis, and topology control
- Monitoring, network measurement, and network management schemes
- Fault-tolerance and traffic engineering
- Pricing and billing modeling and solutions
- Testbeds and deployment
- Standardization activities of emerging wireless technologies

Technical Program Committee (TBD)

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